



TOHOKU
UNIVERSITY

新奇ナノカーボン誘導分子系の研究に関する 国際ワークショップ (ボトムアップ型ナノテクノロジー時代を見据えて!)

日程 平成28年5月17日(火) 08:50-18:05 会場 東北大学 北青葉山キャンパス
理学研究科大講義棟(H-32)

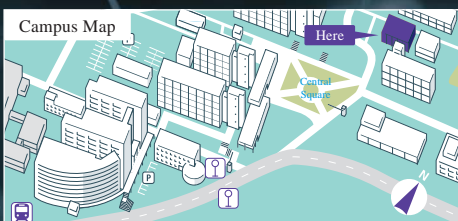
参加費
無料

主催 東北大学学際研究重点拠点:新奇ナノカーボン誘導分子系基盤研究開発センター

共催 東北大学大学院理学研究科, 未来科学技術共同研究センター原子内包フラーレンナノバイオロニクスの創生 協賛 アイデア・インターナショナル株式会社

PROGRAM

- 08:50-09:00 ■ Welcome Speech
Sadayoshi Ito (Executive Vice President for Research, Tohoku University)
- 09:00-09:50 ■ Re-discovery of Detonation Nanodiamond
Eiji Osawa (NanoCarbon Research Institute Limited)
- 09:50-10:30 ■ Synthesis and Isolation of Lithium-Ion-Encapsulated Fullerene and Its Behavior as a Ligand
Hiromi Tobita (Graduate School of Science, Tohoku University)
- 10:30-11:00 ■ Synthesis and Function of Helical Derivatives of Nanocarbon Molecules
Masahiko Yamaguchi (Graduate School of Pharmaceutical Science, Tohoku University)
- Break 10 min.
- 11:10-11:30 ■ Low-frequency Vibration and Rotation of Li⁺ Ion Encapsulated in C₆₀ Fullerene –Investigated by THz Spectroscopy
Hal Suzuki (Graduate School of Science, Osaka University) and Chiko Otani (Center for Advanced Photonics, Riken and Graduate School of Science, Tohoku University)
- 11:30-12:00 ■ Highly-Efficient Synthesis of Nitrogen Encapsulated Fullerene Using Plasma Technology
Toshiro Kaneko and Rikizo Hatakeyama (Graduate School of Engineering, Tohoku University)
- 12:00-12:30 ■ Organic Functionalization of Lithium-Ion-Encapsulated Fullerene
Yutaka Matsuo (University of Science and Technology of China/School of Engineering, The University of Tokyo) and Hiroshi Okada (School of Engineering, The University of Tokyo)
- Lunch Break 60 min.
- 13:30-14:20 ■ Free-Flying Fullerenes
Eleanor Campbell (School of Chemistry, University of Edinburgh, Scotland)
- 14:20-14:50 ■ Optic Properties of Nanotubes, Graphene and Atomic Layer Materials
Riichiro Saito (Graduate School of Science, Tohoku University)
- 14:50-15:20 ■ Current Status and Challenges Ahead in Fullerene Superconductivity
Kosmas Prassides (WPI Advanced Institute for Materials Research, Tohoku University)
- Coffee Break 20 min.
- 15:40-16:10 ■ Prediction of New Carbon Allotropes by Ideal *Ab Initio* Computer Simulation –Pentagraphene–
Yoshiyuki Kawazoe (NICHe, Tohoku University)
- 16:10-16:40 ■ Organic Synthesis of Endohedral Fullerenes by Molecular Surgery
Yasujiro Murata (Institute for Chemical Research, Kyoto University)
- 16:40-17:10 ■ Advanced Functional Textile using Nanomaterials
Mutsumi Kimura (Faculty of Textile Science and Technology, Shinshu University)
- 17:10-18:00 ■ Spin Gating of Mesoscopic Devices
Mats Jonson (Dept. of Physics, University of Gothenburg, Sweden)
- 18:00-18:05 ■ Closing Remarks
Fuminori Misaizu (Graduate School of Science, Tohoku University)



ACCESS

●●● 自然史標本館前バス停(キャンパスバス)
Campus Bus Stops

●●● 地下鉄東西線青葉山駅北1出口
Sendai Subway Tozai Line

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